

AMENDMENTS TO THE CLAIMS

1. (Original) A communication system comprising:

- a communication path capable of conveying communication signals,
- a communication device adapted to receive or generate VHF or UHF communication signals, and
- a near field antenna associated with the communication device, the near field antenna being provided sufficiently near to the communication path to couple VHF or UHF communication signals to or from the communication device to the communication path.

2. (Original) A communication system as claimed in claim 1 wherein the near field antenna is adapted to limit electromagnetic radiation therefrom.

3. (Currently Amended) A communication system as claimed in claim 1 ~~or claim 2~~ wherein the communication path is provided in the very near field of the near field antenna.

4. (Currently Amended) A communication system as claimed in claim ~~[[4]]~~ 1 wherein the near field antenna includes elongate conductors provided on a non-conductive planar substrate.

5. (Currently Amended) A communication system as claimed in ~~any one of the preceding claims~~ claim 1 wherein the communication path is a transmission line comprising a cable having two parallel conductors.

6. (Original) A communication system as claimed in claim 5 wherein the conductors are separated by an insulating web.

7. (Currently Amended) A communication system as claimed in claim 5 ~~or 6~~ wherein the cable comprises a ribbon cable.

8. (Currently Amended) A communication system as claimed in ~~any one of the preceding claims~~ claim 1 wherein the communication path is terminated with a resistance corresponding to the characteristic impedance of the path.

9. (Currently Amended) A communication system as claimed in ~~any one of the preceding claims~~ claim 1 wherein the system includes a communication device directly coupled to the communication path.

10. (Currently Amended) A communication system as claimed in ~~any one of the preceding claims~~ claim 1 wherein essentially no power is radiated from the communication path.

11. (Currently Amended) A communication system as claimed in ~~any one of the preceding claims~~ claim 1 wherein the system allows b-directional communication between the communication device the communication path.

12. (Currently Amended) A communication system as claimed in ~~any one of the preceding claims~~ claim 1 wherein the communication device is moveable along the power supply path and the near field antenna moves with the communication device and relative to the communication path to allow the communication device to receive or generate VHF or UHF communication signals to or from the communication path.

13. (Currently Amended) An HID/IPT system ~~including~~ comprising:

- a power supply path adapted to be ~~energised~~ energized by a power supply to provide an electromagnetic field associated with the power supply path;

- one or more moveable pick-up devices associated with the power supply path and adapted to receive electrical energy from the electromagnetic field to supply a load;

- a communication path capable of conveying communication signals,

- a communication device provided on each of the one or more pick-ups, the communication device being adapted to receive or generate VHF or UHF communication signals; and

a coupling means unit associated with the communication device, the coupling means unit being capacitively coupled to the communication path to couple VHF or UHF communication signals to or from the communication device to the communication path whereby the one or more pick-ups may communicate with each other or with a further device.

14. (Original) An HID/IPT system as claimed in claim 13 wherein the further device interfaces with a control system.

15. (Currently Amended) An HID/IPT system as claimed in claim 13 ~~or 14~~ wherein the further device is directly connected to the communication path.

16. (Currently Amended) An HID/IPT system as claimed in ~~any one of claims~~ claim 13 to 15 wherein the coupling means unit comprises a near field antenna.

17. (Currently Amended) An IPT/HID system as claimed in ~~any one of claims~~ claim 13 to 16 wherein essentially no power is radiated from the communication path.

18. (Currently Amended) A communication method ~~including~~ comprising the steps of:
providing a communication path capable of conveying communication signals;
providing a communication device, the communication device including a near field antenna capacitively coupled to the communication path, and either,
a) imposing a VHF or UHF communication signal on the communication path and using the near field antenna to provide the signal to the communication device, or
b) using the communication device to generate a VHF or UHF communication signal and using the near field antenna to provide the signal to the communication path.

19. (Currently Amended) A communication system comprising:
a communication path capable of conveying communication signals,

a communication device adapted to receive or generate VHF or UHF communication signals, and

a near field antenna associated with the communication device, the near field antenna being provided sufficiently near to the communication path to couple VHF or UHF communication signals to or from the communication device to the communication path, the near field antenna including a shielding ~~means~~ device to limit electromagnetic radiation.

20. (Original) A communication system as claimed in claim 19 wherein the communication path is provided in the very near field of the near field antenna.

21. (Currently Amended) A communication system as claimed in claim 19 ~~or claim 20~~ wherein the near field antenna is inductively coupled to the communication path.

22. (Currently Amended) A communication system as claimed in ~~any one of claims claim 19 to 21~~ wherein the near field antenna comprises a partial, single or multiple turn of a conductive material.

23. (Original) A communication system as claimed in claim 22 wherein the conductive material comprises a thin metal track provided on a non-conductive planar substrate.

24. (Original) A communication system as claimed in claim 23 wherein the conductive material comprises one or more turns being approximately 5mm to 15mm in a lateral dimension and approximately 20mm to 60mm in a longitudinal dimension.

25. (Currently Amended) A communication system as claimed in ~~any one claims claim 19 to 24~~ wherein the shielding ~~means~~ device comprises a screen, and the screen is provided on one side of the a coupling means unit and the communication path is provided on an opposite of the coupling ~~means-unit~~.

26. (Currently Amended) A communication system as claimed in ~~any one of claims~~ claim 19 to 25 wherein the shielding means device comprises a screen of a material having a low magnetic permeability, and the screen is provided on a side of the planar substrate opposite to a side of the substrate on which the metal track is provided.
27. (Currently Amended) A communication system as claimed in ~~any one of claims~~ claim 19 to 26 wherein the communication path is a transmission line comprising a cable having two parallel conductors.
28. (Original) A communication system as claimed in claim 27 wherein the conductors are separated by an insulating web.
29. (Currently Amended) A communication system as claimed in claim 27 ~~or claim 28~~ wherein the cable comprises a ribbon cable.
30. (Currently Amended) A communication system as claimed in ~~any one of claims~~ claim 19 to 29 wherein the communication path is terminated with a resistance corresponding to the characteristic impedance of the path.
31. (Currently Amended) A communication system as claimed in ~~any one of the claims~~ claim 19 to 30 wherein the system includes a communication device directly coupled to the communication path.
32. (Currently Amended) A communication system as claimed in ~~any one of claims~~ claim 19 to 31 wherein essentially no power is radiated from the communication path.
33. (Currently Amended) A communication system as claimed in ~~any one of claims~~ claim 19 to 32 wherein the system allows bi-directional communication between the communication device the communication path.

34. (Currently Amended) A communication system as claimed in ~~any one of claims~~ claim 19 ~~to 38~~ wherein the communication device is moveable along the power supply path and the near field antenna moves with the communication device and relative to the communication path to allow the communication devices to receive or generate VHF or UHF communication signals to or from the communication path.

35. (Currently Amended) An HID/IPT system ~~including~~ comprising:

a power supply path adapted to be ~~energised~~ energized by a power supply to provide an electromagnetic field associated with the power supply path;

one or more moveable pick-up devices associated with the power supply path and adapted to receive electrical energy from the electromagnetic field to supply a load;

a communication path capable of conveying communication signals,

a communication device provided on each of the one or more pick-ups, the communication device being adapted to receive or generate VHF or UHF communication signals; and
a coupling ~~means~~ unit associated with the communication device, the coupling ~~means~~ unit being provided sufficiently near to the communication path to couple VHF or UHF communication signals to or from the communication device to the communication path whereby the one or more pick-ups may communication with each other or with a further device, the coupling ~~means~~ unit including a shielding ~~means~~ device to limit electromagnetic radiation.

36. (Original) An HID/IPT system as claimed in claim 35 wherein the further device interfaces with a control system.

37. (Currently Amended) An HID/IPT system as claimed in claim 35 ~~or 36~~ wherein the further device is directly connected to the communication path.

38. (Currently Amended) An HID/IPT system as claimed in ~~any one of claims~~ claim 35 ~~to 37~~ wherein the coupling ~~means~~ unit comprises a near field antenna.

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39 – 41. (Cancelled)